

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: BEASLEY et al

Serial No. To Be Assigned

Filed: April 25, 2001

For: ISOLATED HUMAN SECRETED  
PROTEINS, NUCLEIC ACID MOLECULES  
ENCODING HUMAN SECRETED PROTEINS,  
AND USES THEREOF

Art Unit:

Examiner:

Atty. Docket: CL001229

**SUBMISSION OF SEQUENCE LISTING  
UNDER 37 C.F.R. § 1.821(a)**

Honorable Commissioner of  
Patents and Trademarks  
Washington, D.C. 20231

Sir:

In compliance with 37 C.F.R. § 1.821(a), applicants submit the Sequence Listing, including the paper copy of the Sequence Listing and the computer readable copy of the Sequence Listing.

**In the Specification:**

The Sequence Listing is provided on pages 57-70 of the specification in the above-identified application.

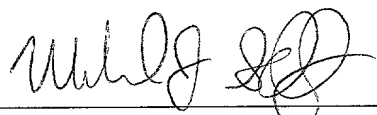
**REMARKS**

In accordance with 37 C.F.R. § 1.821(f), the paper copy of the Sequence Listing and the computer readable copy of the Sequence Listing submitted herewith in the above application are the same.

It is respectfully believed that this application complies with the Sequence Listing requirements and is now in condition for processing.

Respectfully submitted,

CELERA GENOMICS

By:   
**Michael J. Schmelzer**  
Reg. No. 43,093

Date: April 25, 2001

Celera Genomics Corporation  
45 West Gude Drive, C2-4#20  
Rockville, MD 20850  
Tel: 240-453-3067  
Fax: 240-453-3084

03446040

## SEQUENCE LISTING

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<120> ISOLATED HUMAN SECRETED PROTEINS,  
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 USES THEREOF

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&lt;170&gt; FastSEQ for Windows Version 4.0

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&lt;210&gt; 6

&lt;211&gt; 427

&lt;212&gt; PRT

&lt;213&gt; Human

&lt;400&gt; 6

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 20 25 30  
 Lys Leu Gly Gln His Leu Leu Pro Trp Met Asp Arg Leu Ser Leu Glu  
 35 40 45  
 His Leu Asn Pro Ser Ile Tyr Val Gly Leu Arg Leu Ser Ser Leu Gln  
 50 55 60  
 Ala Gly Thr Lys Glu Asp Leu Tyr Leu His Ser Leu Lys Leu Gly Tyr

65                      70                      75                      80  
 Gln Gln Cys Leu Leu Gly Ser Ala Phe Ser Glu Asp Asp Gly Asp Cys  
                                  85                      90                      95  
 Gln Gly Lys Pro Ser Met Gly Gln Leu Ala Leu Tyr Leu Leu Ala Leu  
                                  100                      105                      110  
 Arg Ala Asn Cys Glu Phe Val Arg Gly His Lys Gly Asp Arg Leu Val  
                                  115                      120                      125  
 Ser Gln Leu Lys Trp Phe Leu Glu Asp Glu Lys Arg Ala Ile Gly His  
                                  130                      135                      140  
 Asp His Lys Gly His Pro His Thr Ser Tyr Tyr Gln Tyr Gly Leu Gly  
                                  145                      150                      155                      160  
 Ile Leu Ala Leu Cys Leu His Gln Lys Arg Val His Asp Ser Val Val  
                                  165                      170                      175  
 Asp Lys Leu Leu Tyr Ala Val Glu Pro Phe His Gln Gly His His Ser  
                                  180                      185                      190  
 Val Asp Thr Ala Ala Met Ala Gly Leu Ala Phe Thr Cys Leu Lys Arg  
                                  195                      200                      205  
 Ser Asn Phe Asn Pro Gly Arg Arg Gln Arg Ile Thr Met Ala Ile Arg  
                                  210                      215                      220  
 Thr Val Arg Glu Glu Ile Leu Lys Ala Gln Thr Pro Glu Gly His Phe  
                                  225                      230                      235                      240  
 Gly Asn Val Tyr Ser Thr Pro Leu Ala Leu Gln Phe Leu Met Thr Ser  
                                  245                      250                      255  
 Pro Met Arg Gly Ala Glu Leu Gly Thr Ala Cys Leu Lys Ala Arg Val  
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 Ala Leu Leu Ala Ser Leu Gln Asp Gly Ala Phe Gln Asn Ala Leu Met  
                                  275                      280                      285  
 Ile Ser Gln Leu Leu Pro Val Leu Asn His Lys Thr Tyr Ile Asp Leu  
                                  290                      295                      300  
 Ile Phe Pro Asp Cys Leu Ala Pro Arg Val Met Leu Glu Pro Ala Ala  
                                  305                      310                      315                      320  
 Glu Thr Ile Pro Gln Thr Gln Glu Ile Ile Ser Val Thr Leu Gln Val  
                                  325                      330                      335  
 Leu Ser Leu Leu Pro Pro Tyr Arg Gln Ser Ile Ser Val Leu Ala Gly  
                                  340                      345                      350  
 Ser Thr Val Glu Asp Val Leu Lys Lys Ala His Glu Leu Gly Gly Phe  
                                  355                      360                      365  
 Thr Tyr Glu Thr Gln Ala Ser Leu Ser Gly Pro Tyr Leu Thr Ser Val  
                                  370                      375                      380  
 Met Gly Lys Ala Ala Gly Glu Arg Glu Phe Trp Gln Leu Leu Arg Asp  
                                  385                      390                      395                      400  
 Pro Asn Thr Pro Leu Leu Gln Gly Ile Ala Asp Tyr Arg Pro Lys Asp  
                                  405                      410                      415  
 Gly Glu Thr Ile Glu Leu Arg Leu Val Ser Trp  
                                  420                      425

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 <213> Human

<400> 7  
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 Leu Thr Glu Met Cys Glu Ile Pro Glu Met Asp Ser His Leu Val Glu  
                                  20                                 25                                 30

Lys Leu Gly Gln His Leu Leu Pro Trp Met Asp Arg Leu Ser Leu Glu  
 35 40 45  
 His Leu Asn Pro Ser Ile Tyr Val Gly Leu Arg Leu Ser Ser Leu Gln  
 50 55 60  
 Ala Gly Thr Lys Glu Asp Leu Tyr Leu His Ser Leu Lys Leu Gly Tyr  
 65 70 75 80  
 Gln Gln Cys Leu Leu Gly Ser Ala Phe Ser Glu Asp Asp Gly Asp Cys  
 85 90 95  
 Gln Gly Lys Pro Ser Met Gly Gln Leu Ala Leu Tyr Leu Leu Ala Leu  
 100 105 110  
 Arg Ala Asn Cys Glu Phe Val Arg Gly His Lys Gly Asp Arg Leu Val  
 115 120 125  
 Ser Gln Leu Lys Trp Phe Leu Glu Asp Glu Lys Arg Ala Ile Gly His  
 130 135 140  
 Asp His Lys Gly His Pro His Thr Ser Tyr Tyr Gln Tyr Gly Leu Gly  
 145 150 155 160  
 Ile Leu Ala Leu Cys Leu His Gln Lys Arg Val His Asp Ser Val Val  
 165 170 175  
 Asp Lys Leu Leu Tyr Ala Val Glu Pro Phe His Gln Gly His His Ser  
 180 185 190  
 Val Asp Thr Ala Ala Met Ala Gly Leu Ala Phe Thr Cys Leu Lys Arg  
 195 200 205  
 Ser Asn Phe Asn Pro Gly Arg Arg Gln Arg Ile Thr Met Ala Ile Arg  
 210 215 220  
 Thr Val Arg Glu Glu Ile Leu Lys Ala Gln Thr Pro Glu Gly His Phe  
 225 230 235 240  
 Gly Asn Val Tyr Ser Thr Pro Leu Ala Leu Gln Phe Leu Met Thr Ser  
 245 250 255  
 Pro Met Arg Gly Ala Glu Leu Gly Thr Ala Cys Leu Lys Ala Arg Val  
 260 265 270  
 Ala Leu Leu Ala Ser Leu Gln Asp Gly Ala Phe Gln Asn Ala Leu Met  
 275 280 285  
 Ile Ser Gln Leu Leu Pro Val Leu Asn His Lys Thr Tyr Ile Asp Leu  
 290 295 300  
 Ile Phe Pro Asp Cys Leu Ala Pro Arg Val Met Leu Glu Pro Ala Ala  
 305 310 315 320  
 Glu Thr Ile Pro Gln Thr Gln Glu Ile Ile Ser Val Thr Leu Gln Val  
 325 330 335  
 Leu Ser Leu Leu Pro Pro Tyr Arg Gln Ser Ile Ser Val Leu Ala Gly  
 340 345 350  
 Ser Thr Val Glu Asp Val Leu Lys Lys Ala His Glu Leu Gly Gly Phe  
 355 360 365  
 Thr Tyr Glu Thr Gln Ala Ser Leu Ser Gly Pro Tyr Leu Thr Ser Val  
 370 375 380  
 Met Gly Lys Ala Ala Gly Glu Arg Glu Phe Trp Gln Leu Leu Arg Asp  
 385 390 395 400  
 Pro Asn Thr Pro Leu Leu Gln Gly Ile Ala Asp Tyr Arg Pro Lys Asp  
 405 410 415  
 Gly Glu Thr Ile Glu Leu Arg Leu Val Ser Trp  
 420 425